

What is claimed is:

1. A method of manufacturing an anode zinc can for battery comprising a step of:

making a battery container by using anode material which consists of crystals from 8 to 25  $\mu\text{m}$  of average grain diameter produced by extrusion, punching, and deep-drawing in a temperature from 120degrees Centigrade to 210degrees Centigrade of a plate of zinc alloy anode material wherein bismuth is added to zinc.

2. The method according to claim 1, wherein zinc is the main component of the anode material, 0.01 percent by mass or more and 0.7 percent by mass or less of bismuth is added to the anode material and lead is not virtually added to the anode material.

3. The method according to claim 1 or claim 2, wherein 0.0003 percent by mass or more and 0.03 percent by mass or less of magnesium is added besides bismuth.

4. A manganese dry battery using an anode can for battery made by using anode material which consists of crystals from 8 to 25  $\mu\text{m}$  of average grain diameter produced by extrusion, punching, and deep-drawing in a temperature from 120degrees Centigrade to 210degrees Centigrade of a plate of zinc alloy anode material wherein bismuth is added to zinc.

5. A manganese dry battery consisting with natural manganese dioxide as cathode active material and zinc alloy as anode active material comprising:

an anode can for battery made by using anode material which consists of crystals from 8 to 25  $\mu\text{m}$  of average grain diameter produced by extrusion, punching, and deep-drawing in a temperature from 120degrees Centigrade to 210degrees Centigrade of a plate of zinc alloy anode material wherein 0.1 percent by mass or more and 0.7 percent by mass or less of bismuth is added to zinc.

6. A manganese dry battery consisting with electrolytic manganese dioxide as cathode active material and zinc alloy as anode active material comprising:

an anode can for battery made by using anode material which consists of crystals from 8 to 25  $\mu\text{m}$  of average grain diameter produced by extrusion, punching, and deep-drawing in a temperature from 120degrees Centigrade to 210degrees Centigrade of a plate of zinc alloy anode material wherein 0.01 percent by mass or more and 0.7 percent by mass or less of bismuth is added to zinc.

7. A manganese dry battery according to claim 5 or claim 6, wherein the anode active material contains from 0.0003 percent by mass to 0.003 percent by mass of magnesium in addition.